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ducts of different forms but each of 8 in. equivalent diameter. The duct sizes were 8 in. ID round, 8 in. square and 4.5 in. by 36 in. rectangular (8:1 aspect The main purpose of this study was to check the validity of this simple criterion over a reasonably wide range of velocities and aspect ratios. The first part of the paper gives the results of an experimental investigation using three ratio). Air velocities used ranged from 300 to 9310 fpm.

For most practical purposes the three ducts were found to be identical in flow resistance at equal velocities.